

ONE-STOP SERVICE

from development
to production



Customized vacuum
emulsifying system



Full-functional production type
emulsifying mixer



Filling machine

Full-functional Vacuum Emulsifying Mixer

for flexibility and productivity
in the R&D process



For the mixing
dispersion &
emulsification of
liquid & semi-solid
products



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SINCE 1998

Fifth Generation Plus Type Newly updated

Better Mechanical Performance Smarter Operating System

1999

First Generation



2004

Second Generation



2008

Third Generation



2012

Fourth Generation



2017

Fifth Generation



Stirring and homogenizing system
with our own core technologies

Main pot (emulsifying pot)
pharmaceutical level available
SS316 for parts contacting
material

Tilting handwheel for main pot

food level SS304 adopted
for machine casing

Movable foot wheels

Lifting beam

Intelligent operating system

Autonomous and controllable
control circuit

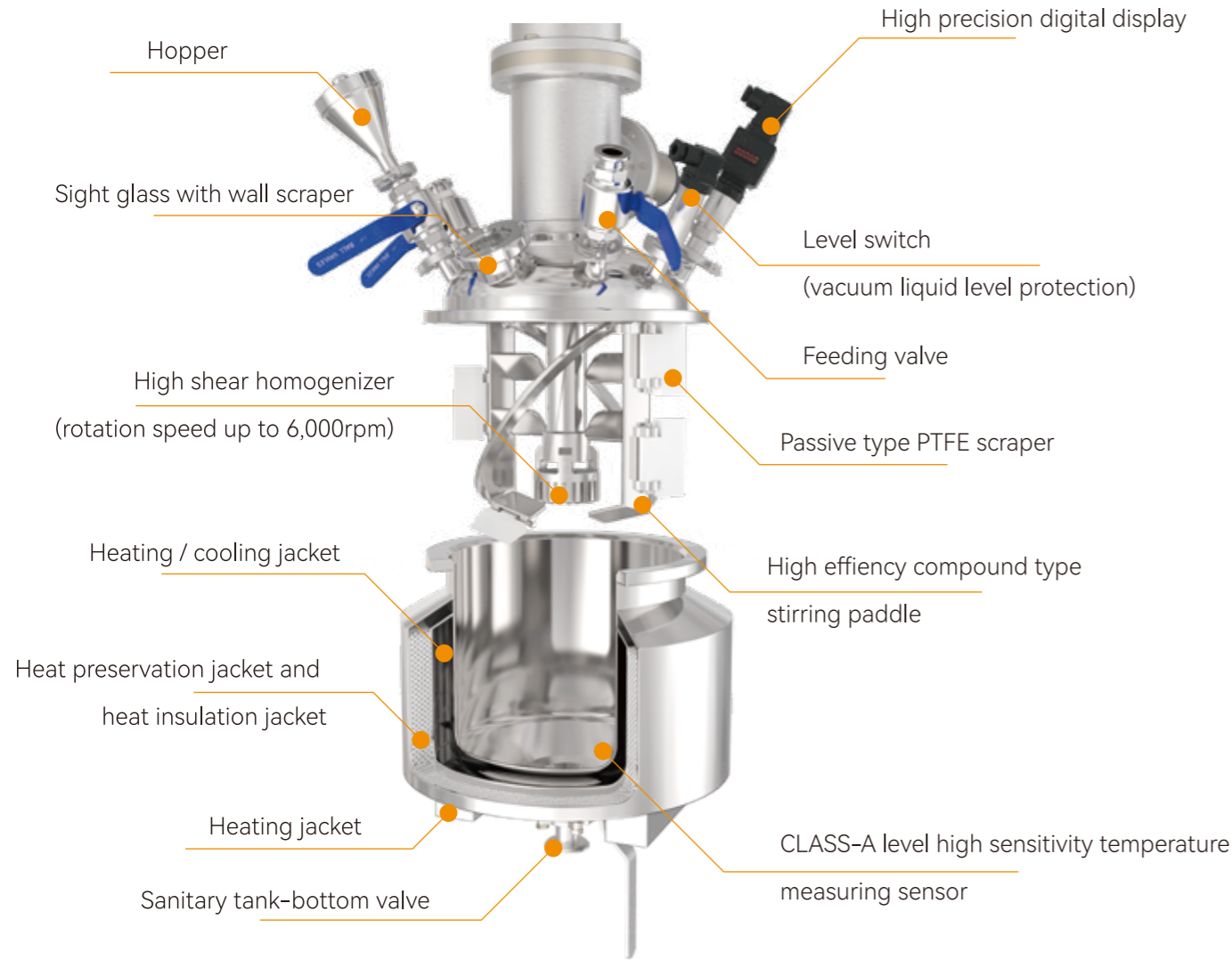
Preparatory pots, including
water pot and oil pot

Anti-scald guard plate

High negative pressure
built-in vacuum pump



High rotation speed, High Vacuum, High precision, High efficiency



Axial homogenizer

In general, it has the features of high circulation power and low shearing force, which is suitable for high viscosity fluid processing that does not require particle size, resulting from axial jetting from bottom to top.



Radial homogenizer

Owing to radial jetting with side spraying and side suction upside and down in the tank, the radial homogenizer is, for the most part, suitable for medium and high viscosity working conditions, featuring high shearing force and low circulation force.



Disperser

The disperser has a robust dispersing effect. Compared to the homogenizer, it has a weaker shearing effect. The disperser is applicable to dissolve the powders in proportion.

Smarter Operating System



Landing page



Manual operation

Compared with previous generation, the manual automation image of new system is designed with larger operation buttons to prevent mistaken press. It also has higher definition display of operating data for easy observation.



Availability check-ups

The operator can accurately know the working status of the equipment, troubleshoots mechanical failures of the equipment in time and ensure the validity of the experimental data.

Newly added functions:

1. Functions automatically
2. Maintenance and reminders.
3. Equipment availability check-ups.
4. Key data graphic display.
5. Equipment operation guidelines.



Automation operation

The automatic operation function is added for the first time, which can realize one-key operation. This function not only reduce the labor's pressure, but also used to explore automatic production steps for mass production.



Operation guidelines

The integration of new system includes: equipment working principles, a guideline for disassembly key components, which is convenient for users to get started quickly and scientifically.

Parameters

Type	ZJR-5			ZJR-10		
Electric level	L0	L1	L2	L0	L1	L2
	Mechanical para					
Design volume (L)	6			10		
Working volume (L)	5			8		
Material/Thickness of pot cover	304 / 3mm	316 / 3mm	316 / 3mm	304 / 3mm	316 / 3mm	316 / 3mm
Material/Thickness of inner layer	316 / 3mm			316 / 3mm		
Material/Thickness of middle layer	304 / 3mm			304 / 3mm		
Material/Thickness of outer layer	304 / 3mm			304 / 3mm		
Mixing type	Frame scraper stirring	Half frame scraper ribbon stirring	Half frame scraper ribbon stirring	Frame scraper stirring	Half frame scraper ribbon stirring	Half frame scraper ribbon stirring
Power of stirring reducer (kw)	0.25			0.25		
Rotation speed of stirring (rpm)	0-86			0-86		
Material of scraper	PTFE			PTFE		
Homogenizing type	High shear homogenizer/Disperser (optional)			High shear homogenizer/Disperser (optional)		
Power of homogenizing motor (kw)	0.75	1.1	1.1	0.75	1.1	1.1
Rotation speed of homogenizer (rpm)	2875	6000	6000	2875	6000	6000
Temperature measurement method	a straightening type A level PT-100 is installed at the bottom of the pot			a straightening type A level PT-100 is installed at the bottom of the pot		
Electric heating power (kw)	2			2		
Vacuum pump power (kw)	0.25			0.25		
Extreme vacuum degree of the pot (bar)	≤-0.95			≤-0.95		
Lifting type	Electric			Electric		
Lifting motor power (kw)	0.09			0.09		
Tilting type	Manual			Manual		
Pot pressure (bar)	-1~0			-1~0		
Jacket inlet	3/4"			3/4"		
Jacket outlet	3/4"			3/4"		
Material outlet	Optional	1"tank bottom ball valve	1"tank bottom ball valve	Optional	1"tank bottom ball valve	1"tank bottom ball valve
	Configuration of main pot cover					
Observation port	2"sight glass with scraper			2"sight glass with scraper		
Suction port	3/4" quick installed chuck+ quick installed ball valve			3/4" quick installed chuck+ quick installed ball valve		
Vacuum port	3/4" quick installed chuck+ quick installed ball valve			3/4" quick installed chuck+ quick installed ball valve		
Pressure gauge port	3/4" quick installed chuck+ quick installed ball valve			3/4" quick installed chuck+ quick installed ball valve		
Minor hopper	3/4" quick installed chuck+ quick installed ball valve+ hopper			3/4" quick installed chuck+ quick installed ball valve+ hopper		
Level sensor installation port	None	3/4" quick installed chuck	3/4" quick installed chuck	None	3/4" quick installed chuck	3/4" quick installed chuck
Illumination port	Φ30 LED			Φ30 LED		
	Mechanical parameters of water pot					
Design volume (L)	3.35			7.3		

Working volume (L)	2.7			6		
Material/Thickness of pot cover	304 / 2mm			304 / 2mm		
Material/Thickness of inner layer	316 / 3mm			316 / 3mm		
Material/Thickness of outer layer	304 / 2mm			304 / 2mm		
Temperature measurement method	a pipe-sleeved type A level PT-100 is installed at the bottom of the pot			a pipe-sleeved type A level PT-100 is installed at the bottom of the pot		
Power of stirring motor (kw)	0.025			0.025		
Mixing type	Disperser			Disperser		
Rotation speed of stirring (rpm)	1200			1200		
Material outlet	1" manual ball valve	1"tank bottom ball valve	1"tank bottom ball valve	1" manual ball valve	1"tank bottom ball valve	1"tank bottom ball valve
Jacket inlet	3/4"			3/4"		
Jacket outlet	3/4"			3/4"		
Electric heating power (kw)	1			1		
	Mechanical parameters of oil pot					
Design volume (L)	3.35			7.3		
Working volume (L)	2.7			6		
Material/Thickness of pot cover	304 / 2mm			304 / 2mm		
Material/Thickness of inner layer	316 / 3mm			316 / 3mm		
Material/Thickness of outer layer	304 / 2mm			304 / 2mm		
Temperature measurement method	a pipe-sleeved type A level PT-100 is installed at the bottom of the pot			a pipe-sleeved type A level PT-100 is installed at the bottom of the pot		
Power of stirring motor (kw)	0.025			0.025		
Mixing type	Disperser			Disperser		
Rotation speed of stirring (rpm)	1200			1200		
Material outlet	1" manual ball valve	1"tank bottom ball valve	Material outlet	1" manual ball valve	1"tank bottom ball valve	Material outlet
Jacket inlet	3/4"			3/4"		
Jacket outlet	3/4"			3/4"		
Electric heating power (kw)	1			1		
	Protection					
Lifting screw rod thread self-locking	As standard			As standard		
Tilting reducer snail rod self-locking	As standard			As standard		
Stirring functions are forbidden when pot cover is lifting	As standard			As standard		
Lifting function is forbidden when stirring functions are operating	As standard			As standard		
The pot jacket layer can't be heated without water	None	Optional	As standard	None	Optional	As standard
Vacuum liquid level protection	Optional	As standard	As standard	Optional	As standard	As standard
	Dimensions					
Length (mm)	1100	1370	1400	1100	1400	1400
Width (mm)	620	610	610	620	610	610
Minimum height (mm)	1650	1700	1700	1650	1700	1700
Maximum height (mm)	1950	2000	2000	1950	2000	2000